

**IN THE SPECIFICATION:**

**Paragraph beginning at line 8 of page 1 has been amended as follows:**

Pulse wave detecting apparatus having a function of detecting a pulse wave of a subject have been developed. A pulse wave detecting apparatus has a configuration in which a detecting section is attached to the body of a ~~subject;~~ subject, a pulse wave detected by the detecting section is ~~sampled;~~ sampled, and signals resulting from the sampling ~~is~~ are subjected to a Fourier transform process to acquire vital information of the subject such as the pulse rate and blood pressure.

**Paragraph beginning at line 6 of page 3 has been amended as follows:**

The invention provides a Fourier transform processing apparatus, ~~comprises~~ comprising a sampling process unit for sampling input signals at a first frequency and sequentially outputting resultant signals, an averaging process unit for sequentially averaging every predetermined number of signals from the sampling process unit and sequentially outputting resultant signals at a second frequency, and a Fourier transform process unit for performing

a Fourier transform process on the signals from the averaging process unit. The sampling process unit samples input signals at a first frequency and sequentially outputs resultant signals. The averaging process unit sequentially averages every predetermined number of signals from the sampling process unit and sequentially outputs resultant signals at a second frequency. The Fourier transform process unit performs a Fourier transform process on the signals from the averaging process unit.

**Paragraph beginning at line 6 of page 4 has been amended as follows:**

The invention also provides a pulse wave detecting apparatus ~~comprises~~ comprising a signal detecting unit for detecting a pulse wave and outputting pulse signals associated therewith, a signal sampling process unit for sampling the pulse signals from the signal detecting unit at a first frequency and sequentially outputting resultant signals, an averaging process unit for sequentially averaging every predetermined number of signals from the signal sampling process unit and sequentially outputting resultant signals at a second frequency, a signal Fourier transform process unit for performing a Fourier transform process on the signals from the averaging process unit, and a pulse rate calculation

process unit for calculating a pulse rate based on the result of the process at the signal Fourier transform process unit.

**Paragraph beginning at line 14 of page 8 has been amended as follows:**

The pulse wave detecting apparatus has a pulse rate calculating circuit 113 as a pulse rate calculation process unit that obtains a ~~different~~ difference between a signal output by the FFT circuit 108 and a signal output by the FFT circuit 112 and calculates a pulse rate based on the difference signal and a display section 114 as a display unit that displays the pulse rate calculated by the pulse rate calculating circuit 113.

**Paragraph beginning at line 3 of page 11 has been amended as follows:**

The A-D conversion circuit 106 samples analog output signals from the filter and amplifier circuit 105 at a predetermined frequency (16 Hz in ~~he~~ the present embodiment) and converts them into digital signals that are output to the modified moving average process circuit 107. As shown in Fig. 2, the modified moving average process circuit 107 sequentially averages every predetermined number (two in the present embodiment) of the digital signals in the order of

input without duplication and outputs signals obtained through the averaging to the FFT circuit 108. Thus, modified moving average signals at 8 Hz are sequentially output by the modified moving average process circuit 107 as shown in Fig. 3.